

Abstract of the Disclosure

AXIAL PISTON PUMP BARREL WITH A CAST HIGH PRESSURE
COLLECTION CAVITY

In an axial piston pump, a plurality of reciprocating pistons are at least partially positioned within a barrel. The barrel includes a ring shaped high pressure collection cavity that is positioned between the piston chambers and the outlet of the pump. In order to minimize potential losses due to leakage from the ring shaped collection cavity, the barrel is made from a casting that utilizes a ring shaped core supported in a mold. This facilitates the formation of the ring shaped cavity while insuring location and dimensional tolerances, and assisting in the latter machining of the casting to its final form.